CAPBOT USER MANUAL

PRINTER.ORG.UA

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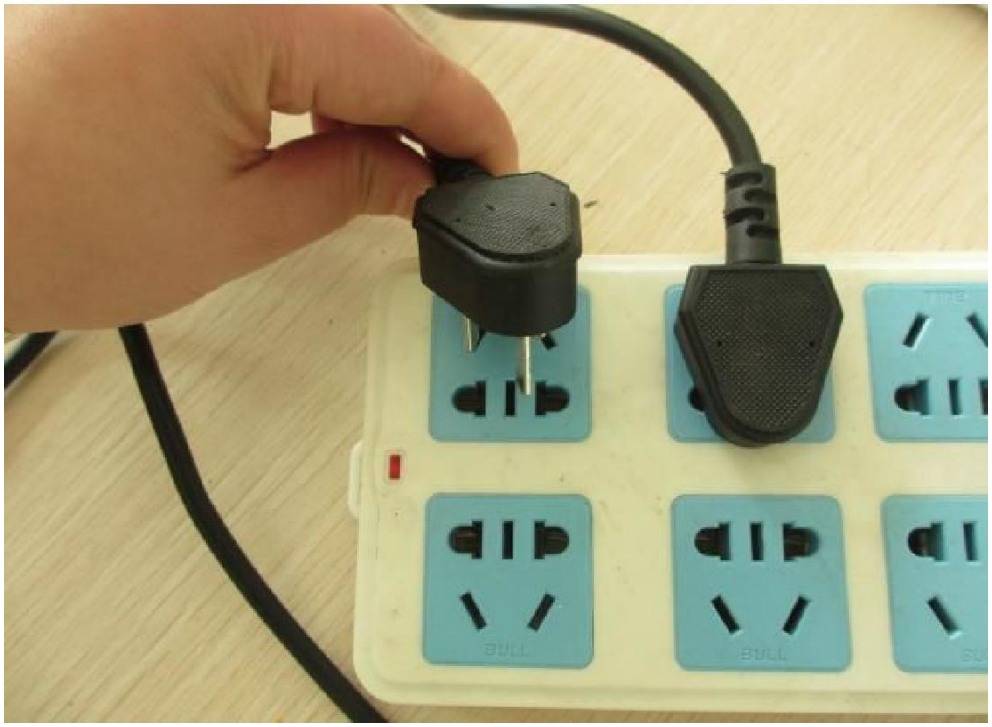
Connect power and computer

1)Connect power



2) Connect computer

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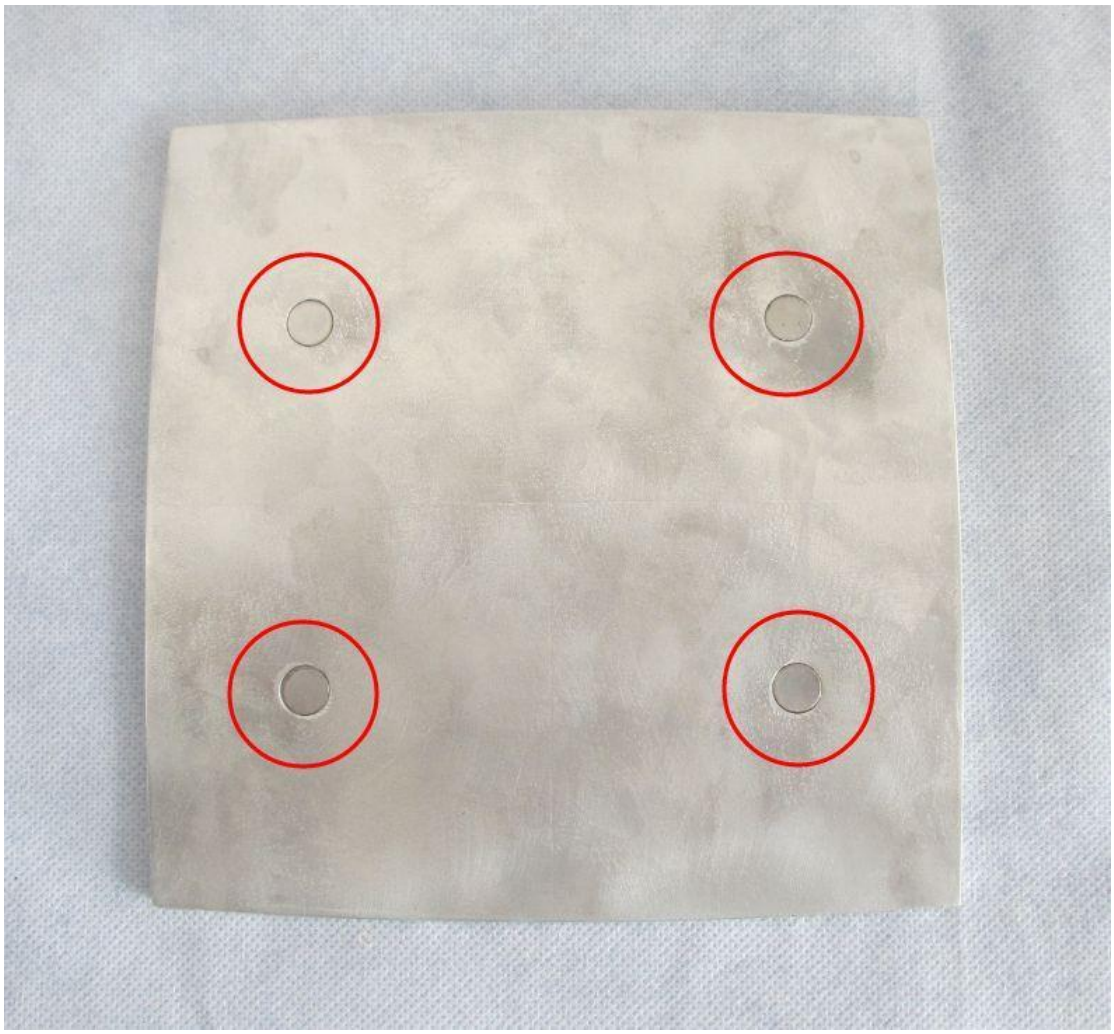
Assemble the hotbed plate and material plate

1)Assemble hotbed plate

We use magnetic fixation to make is convenience of disassemble the hot bed plate. Mount the four magnetic devices to the bracket of the printer. As shown below:



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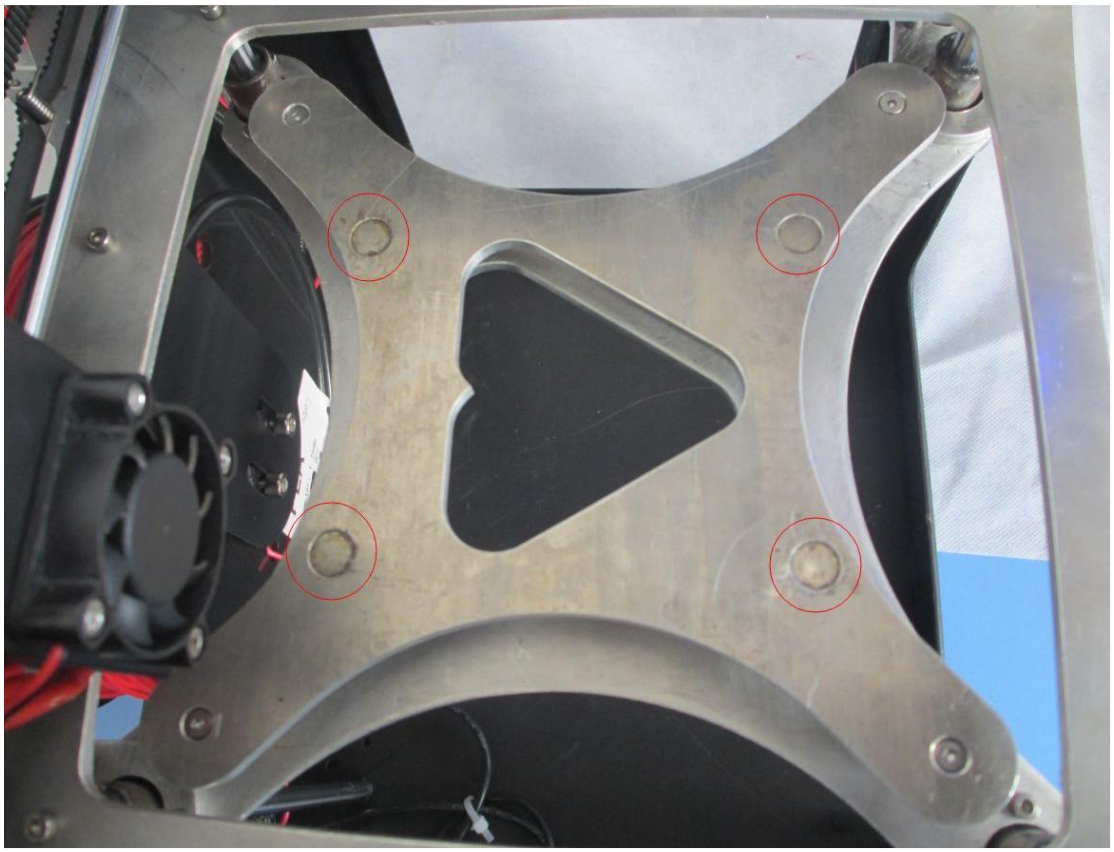
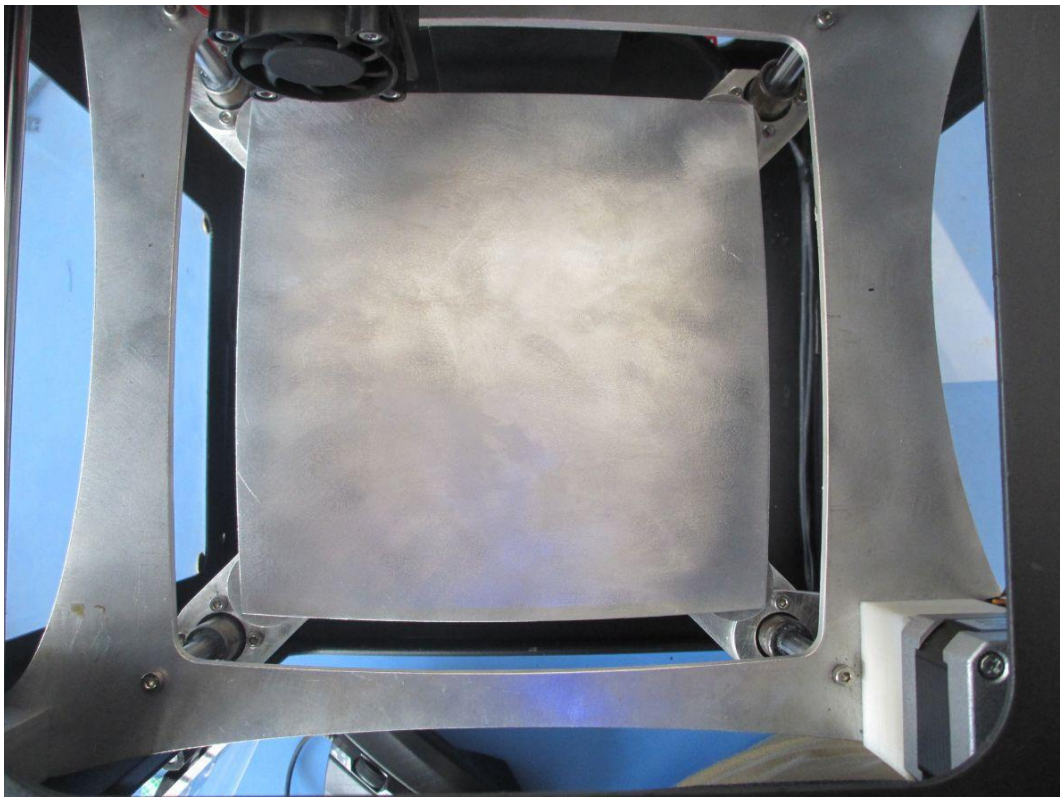


The hotbed plate adsorbed to the bracket and please feel if it is firm when first assemble.



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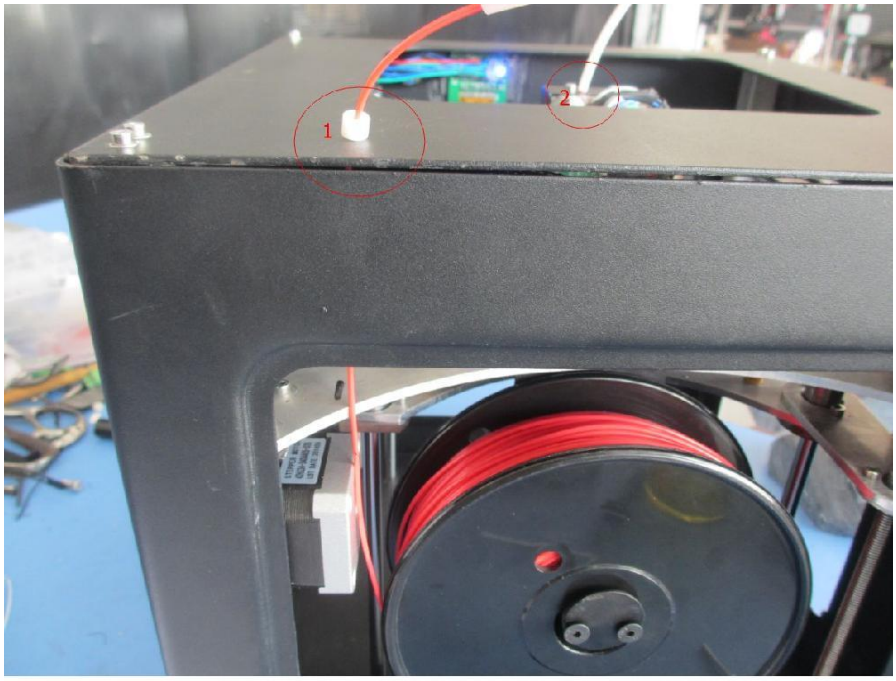
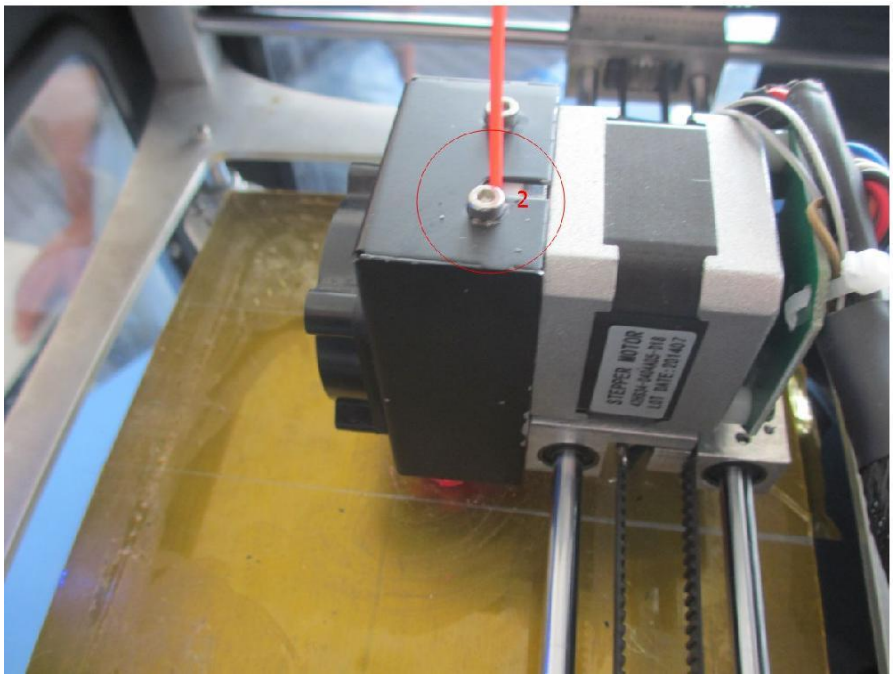
2)Assemble material plate

We designed the material plate holder inside the printer and easy to carry.





After fix the material plate, feed the filament through inlet no. 1 and then no. 2(No. 2 is the inlet of extruder).

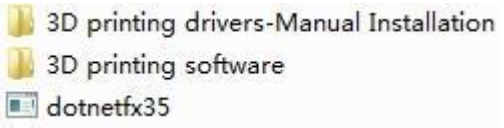
Pre-configurate the software and test

system operating environment

content	Configuration requirements
Operating system	XP/WIN7 Ultimate and above
CPU	I3 and above
RAM space	2GB or more
Take up hard disk space	300MB
Free hard disk space	1GB
display	Colorful VGA 1024*768 or above
printer	Various types of 24 pin,laser,ink-jet printer
Mouse	Two keys
Other equipment	Speed CD-ROM、sound card

Attention: Please ensure that your operating system is not infected with the virus for the correctness of the calculation.

Open

, there will be 3 files: 

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1) Install drivers

(Computer connects 3D printer via COM port,so you need to install the COM port driver first)

Connect computer and 3d printer with the USB wire,press power button and wait for the computer to recognize.

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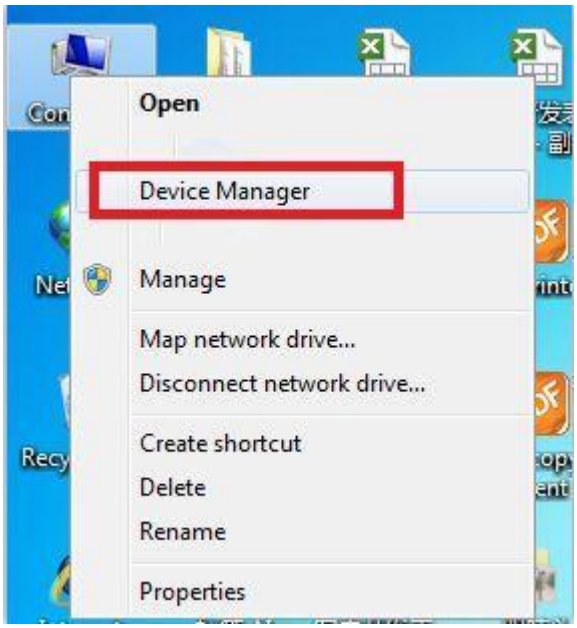
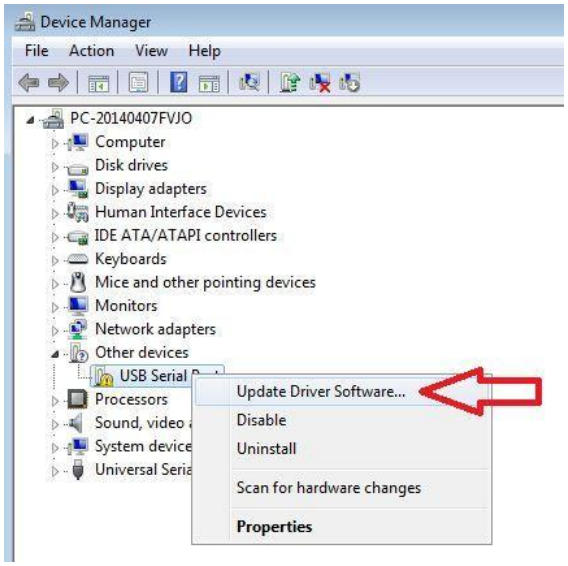
Right click

，Select “Device Manager”，

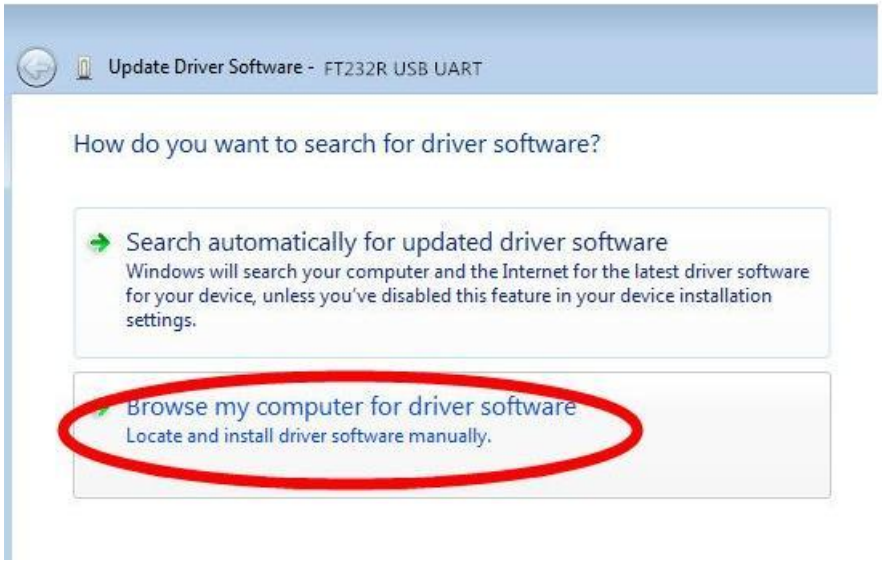


computer will recognizes the new equipment automatically.

Choose FT232R USB UART,right click and choose “Update driver software”



Click “browse my computer for driver software”


Update Driver Software - FT232R USB UART
How do you want to search for driver software?
Search automatically for updated driver software
Windows will search your computer and the Internet for the latest driver software for your device, unless you've disabled this feature in your device installation settings.
Browse my computer for driver software
Locate and install driver software manually.

Browse SD Card, choose

CAPBOT SD Card ▸ 3D printing drivers-Manual Installation ▸ windows,

and click "Next"as shown below:

Update Driver Software - USB Serial Port (COM3)
Browse for driver software on your computer
Search for driver software in this location:
SD\A- DRIVERS\Driver- Install manually\windows
Browse...
Let me pick from a list of device drivers on my computer
This list will show installed driver software compatible with the device, and all driver software in the same category as the device.
Next
Cancel

Click"Install", as shown below:

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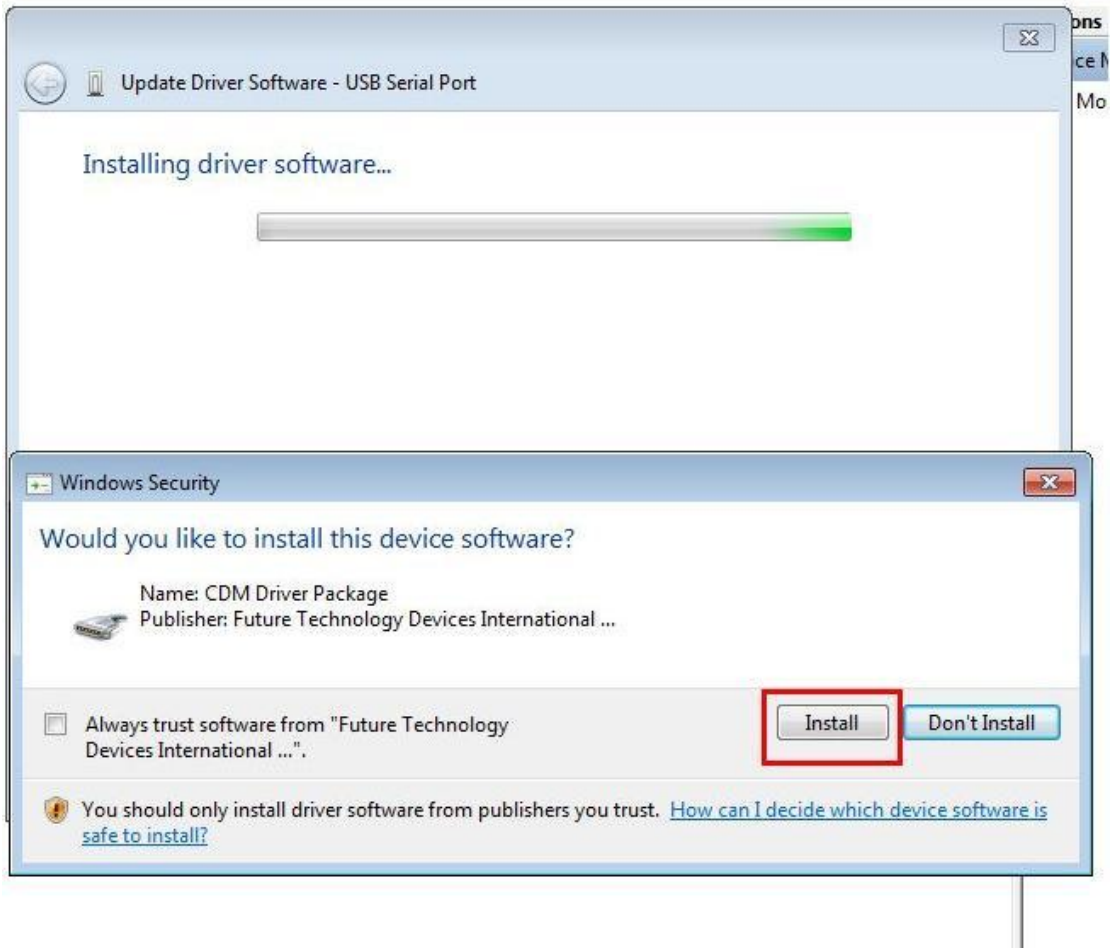
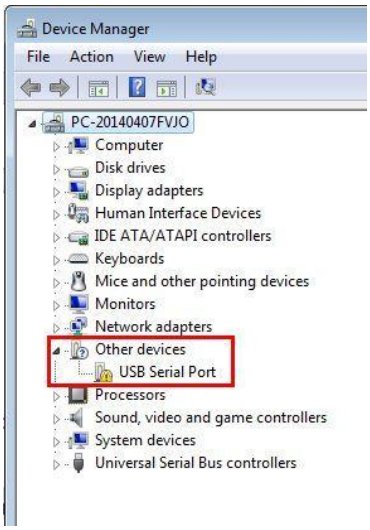

Update Driver Software - USB Serial Port
Installing driver software...
Windows Security
Would you like to install this device software?
Name: CDM Driver Package
Publisher: Future Technology Devices International ...
Always trust software from "Future Technology Devices International ...".
Install
Don't Install
You should only install driver software from publishers you trust. How can I decide which device software is safe to install?

Installation finished,click“close”.

When finished installation of USB driver, you will find a new port in the “Device Management”,as shown below:



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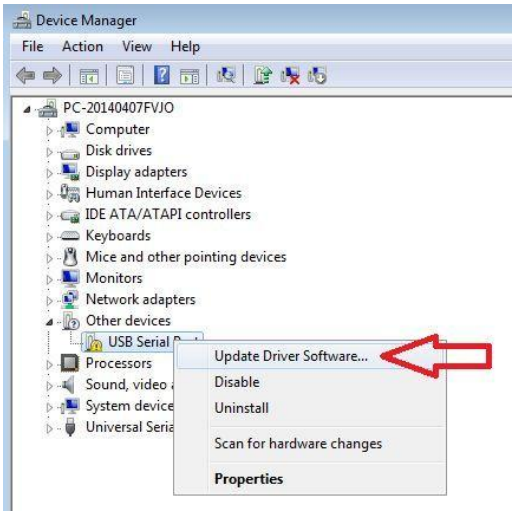
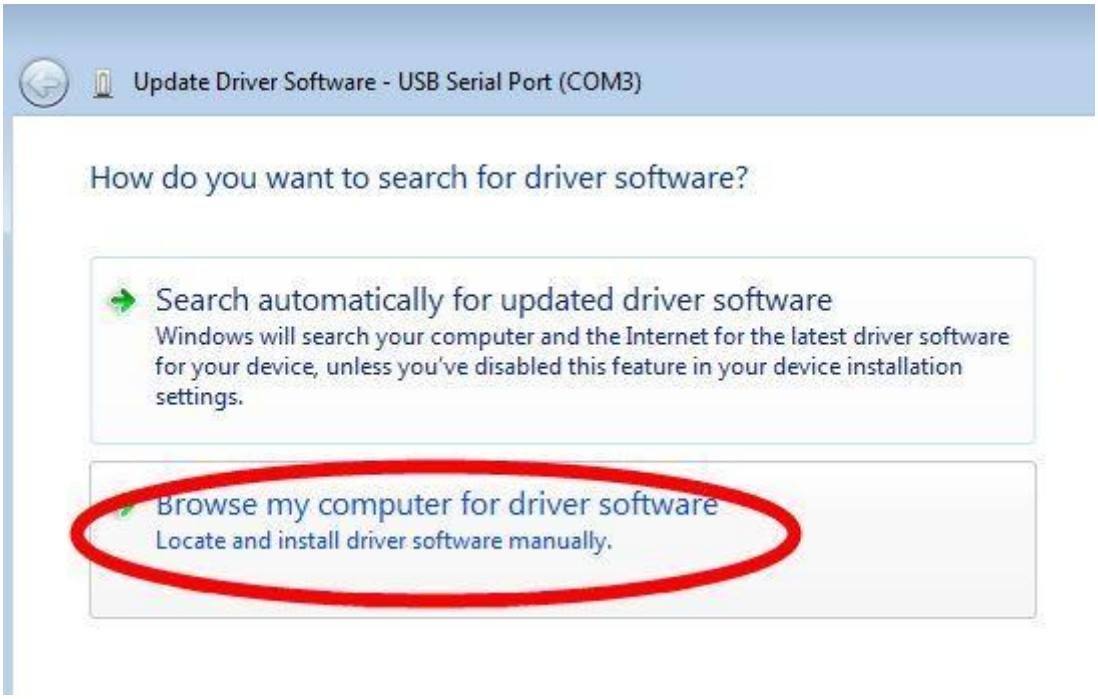
Right click the new port and choose “Update driver software”



Click “browse my computer for driver software”


Update Driver Software - USB Serial Port (COM3)
How do you want to search for driver software?
Search automatically for updated driver software
Windows will search your computer and the Internet for the latest driver software for your device, unless you've disabled this feature in your device installation settings.
Browse my computer for driver software
Locate and install driver software manually.

Browse SD Card, choose

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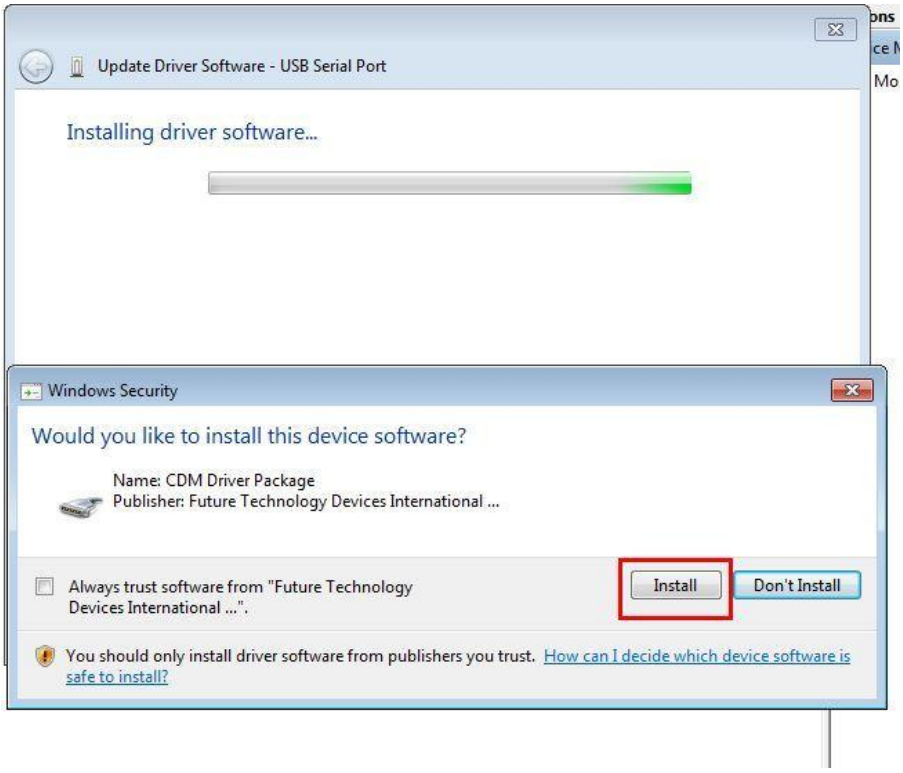
Click next ,as shown below:

Update Driver Software - USB Serial Port (COM3)
Browse for driver software on your computer
Search for driver software in this location:
SD\A- DRIVERS\Driver- Install manually\windows
Browse...
Let me pick from a list of device drivers on my computer
This list will show installed driver software compatible with the device, and all driver software in the same category as the device.
Next
Cancel

Click Installation, as shown below


Update Driver Software - USB Serial Port
Installing driver software...
Windows Security
Would you like to install this device software?
Name: CDM Driver Package
Publisher: Future Technology Devices International ...
Always trust software from "Future Technology Devices International ...".
Install
Don't Install
You should only install driver software from publishers you trust. How can I decide which device software is safe to install?

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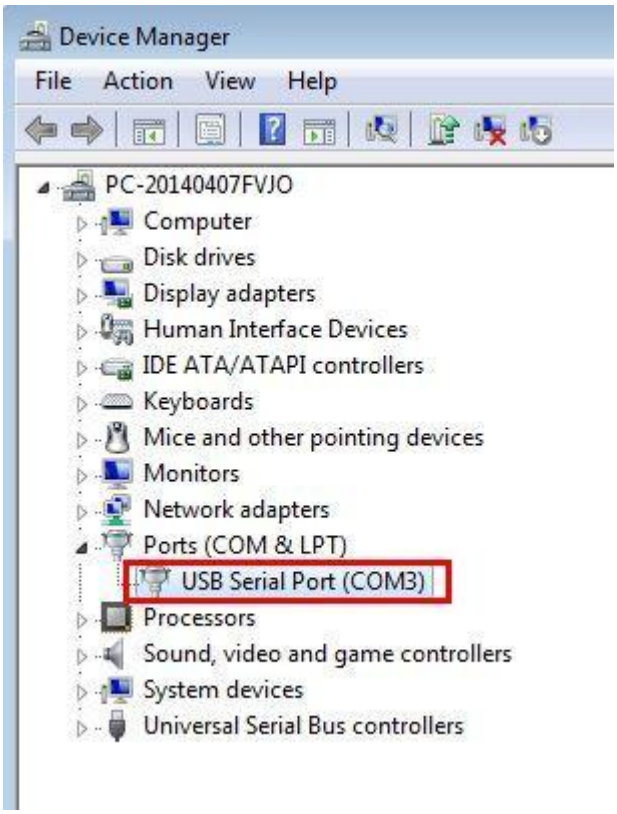
The following interface indicates that the installation is finished: Confirm the port location of the Device Manager ,remember the COM port number. as shown below



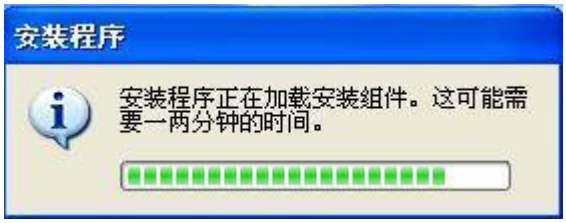
2) Install dotnetfx3.5 SP1

Attention:

1.WIN XP needs to install this software. You don't need to install this software if the operating system of your computer is WIN 7 or above.

2.It will be faster to shut off the internet when you install dotnetfx3.5 SP1.

Double click you will see as shown below:



Wait a minute and then start to install.

Choose"I have read and accept the terms of the agreement",then click install.

Download and update data

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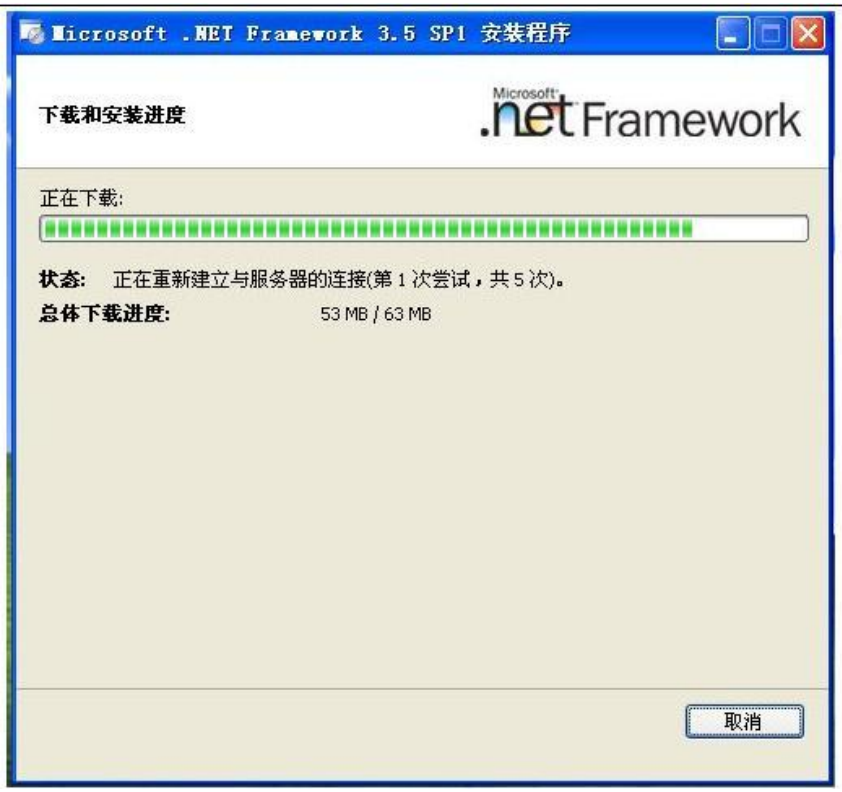
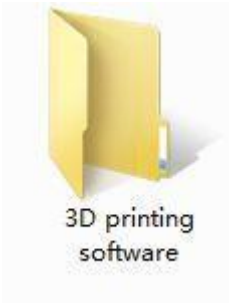
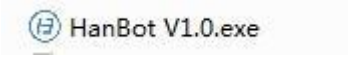


It will start to install after about 7 minutes

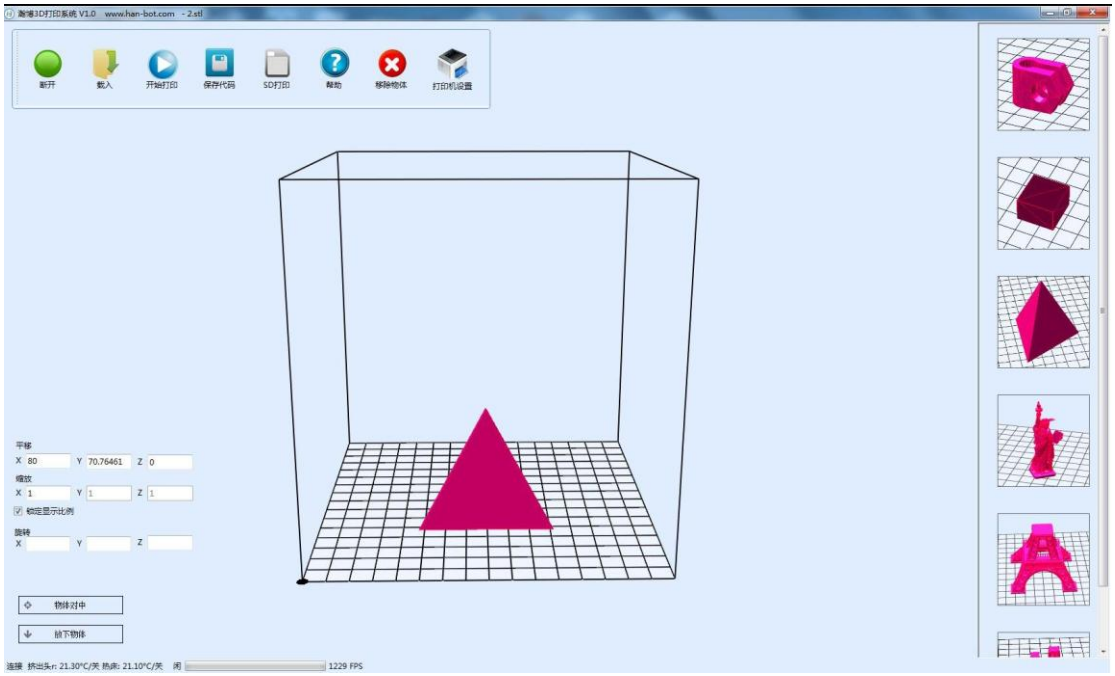
Click”quit”,installation finished.(You can connect to the internet now)

3) Introduction of Hanbot 3D printing system

In the SD card, double click 

and then double click 

, you will see the Hanbot 3D printing software as shown below:



After 3 steps finished, you can normally use “Hanbot 3D printing software”

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User manual of “Hanbot 3d printing system”

1)Printer Settings

Click,you will see:

Choose the right Port Number

(The one you got when you finished installation of drivers)

You can choose what you need to set about precision,density,support and language. Compensation value set as 1.5. Then click OK button and finished setting.

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2) Connecting

Click

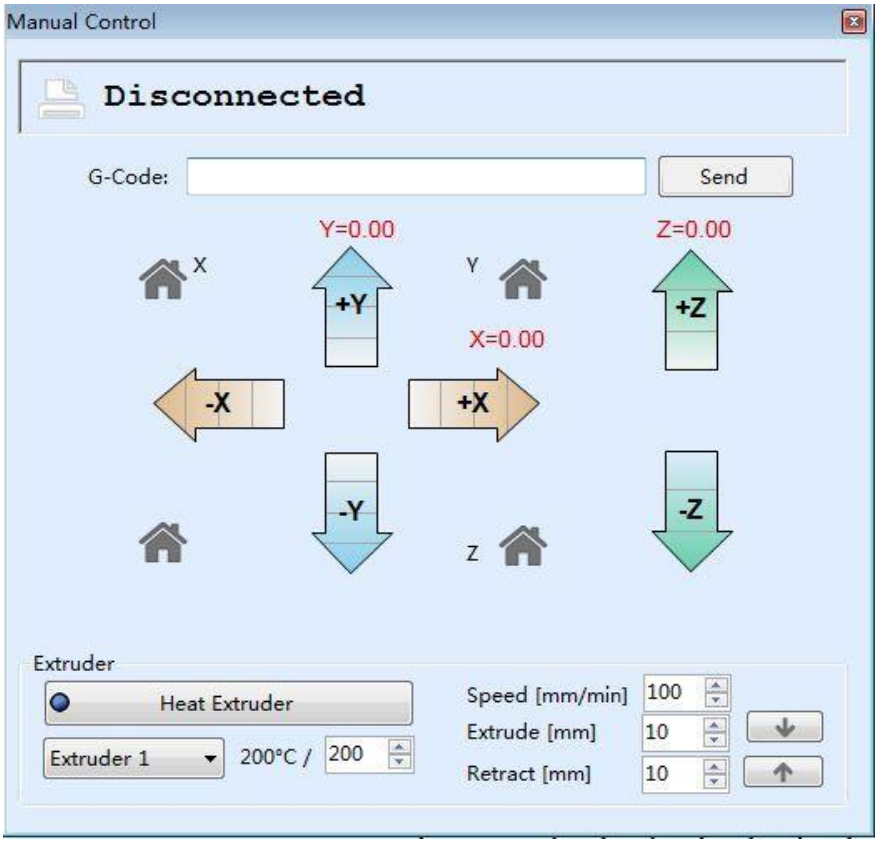
in the left corner and it turns to

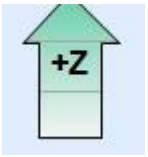
,connecting successfully.

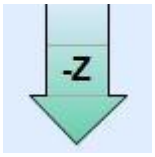
3) Manual Control

Right click any where of the interface, you will see

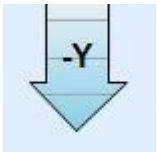
,click it and you will see:



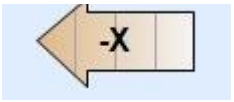


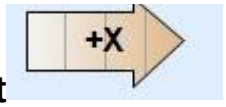
:Z-axis move Down 

:Z-axis move Up

:Y-axis move forward 

:move backward



:X-axis move left 

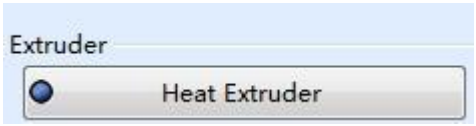
:X-axis move right

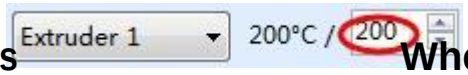
:X-axis homing

:Y-axis homing

:Z-axis homing

:XYZ-axis homing

Press 

to heat the nozzle,the temperature set as 

When the temperature reaches above 190 degrees , click extrude button

.You can test if the nozzle extrudes fluently by this way.

4) Loading Model

There are 2 methods:

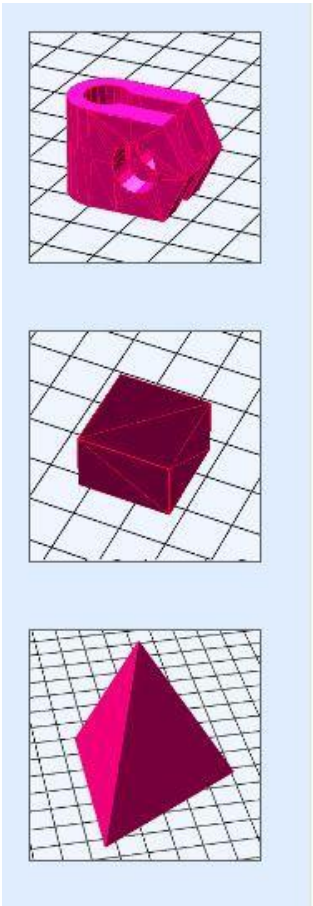
Method 1:

click

in the left corner,choose the STL file and load(Only stl files can be loaded)

Method 2:

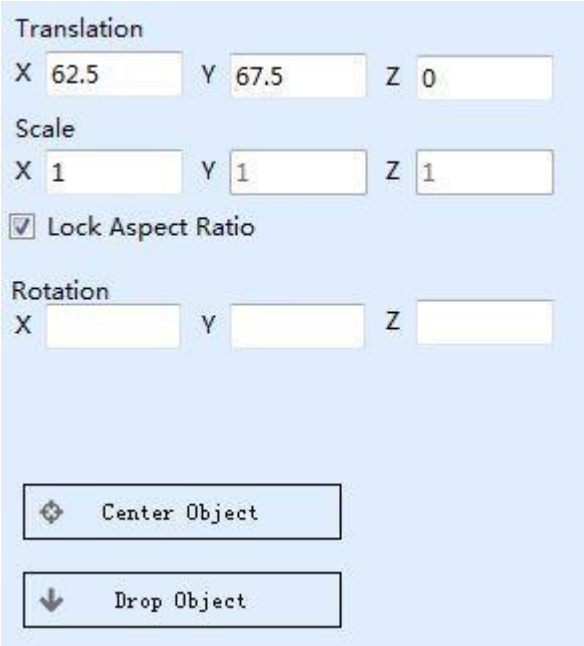
There are some models in the right side of the interface,



Click the one you like and it will load automatically.

5) Setting size and position

You will see the interface below after load the model



Translation:change the horizontal position

of model Scale: Change the size of model.

Rotation:Rotate the model according to XYZ

axis Center Object: Put the object in center

Drop Object: Drop the object down

Left click mouse to adjust the viewing angle

Right click mouse to move the object

Scroll the mouse to adjust the distance of lens

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6) Delete model

Click

to remove the model

7) Print model

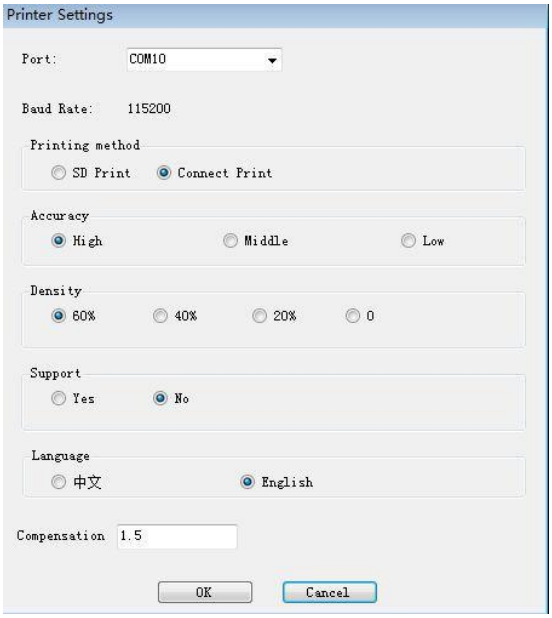
There are 2 printing methods: Printing with computer and printing without computer

A)print with computer

Operating easily,but it will stops print some times if there is interference of communication signal

Click

, you will see:

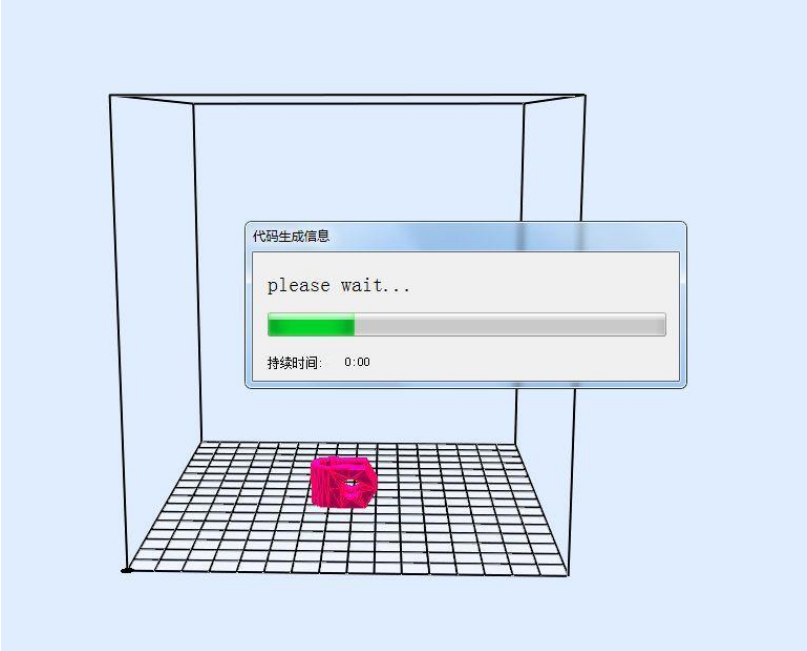


Choose “connect print”and then “OK”

will change to

.Load the model and click

,you will see Slice interface:



The interface closed means slicing of file finished.

B) Print without computer

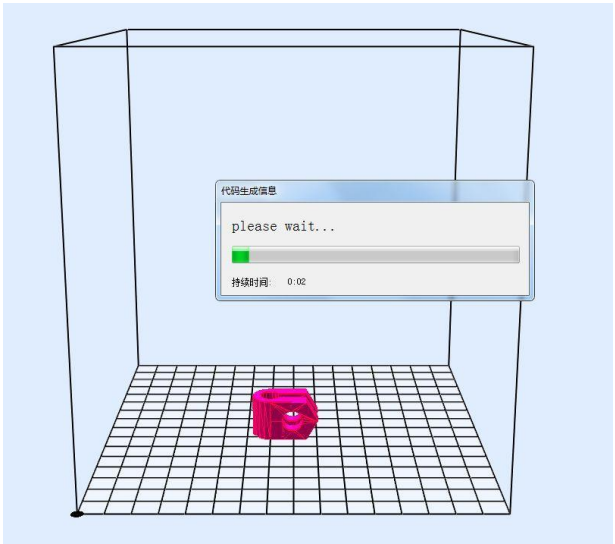
Operating will be a little complex, but it will not influenced by communication signal. Fit large model.

Click

, you will see

Choose “connect print”and then “OK”.Load the model and click

,you will see Slice interface:



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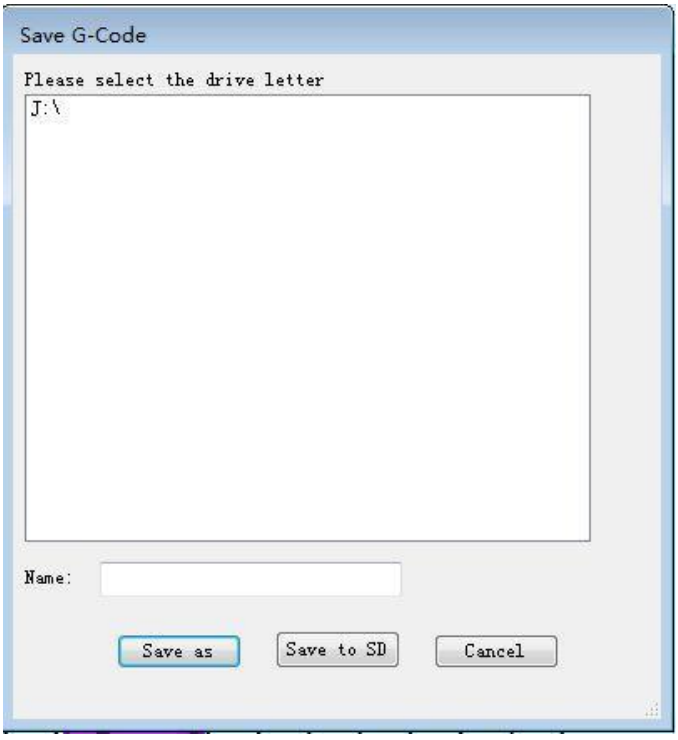
Please wait for the model to be sliced.The interface closed means slicing finished.

Click

,you will see:

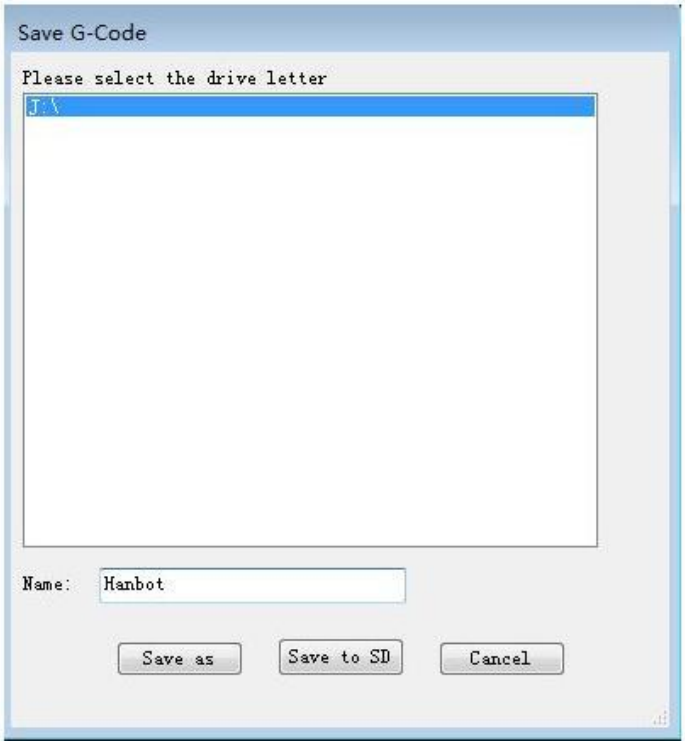


Click

, choose where you want to save the g-code file in your computer.

This means save the g-code file in the SD card.

Here you will see the SD card,you need to choose the SD card and name the file.



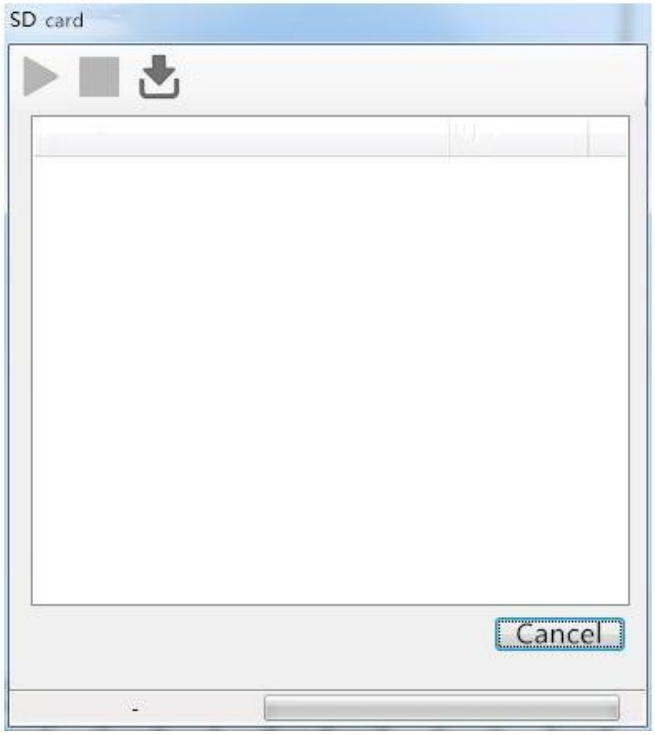
After saving, the interface will closed. Remove the SD card to the slot in printer.

Click

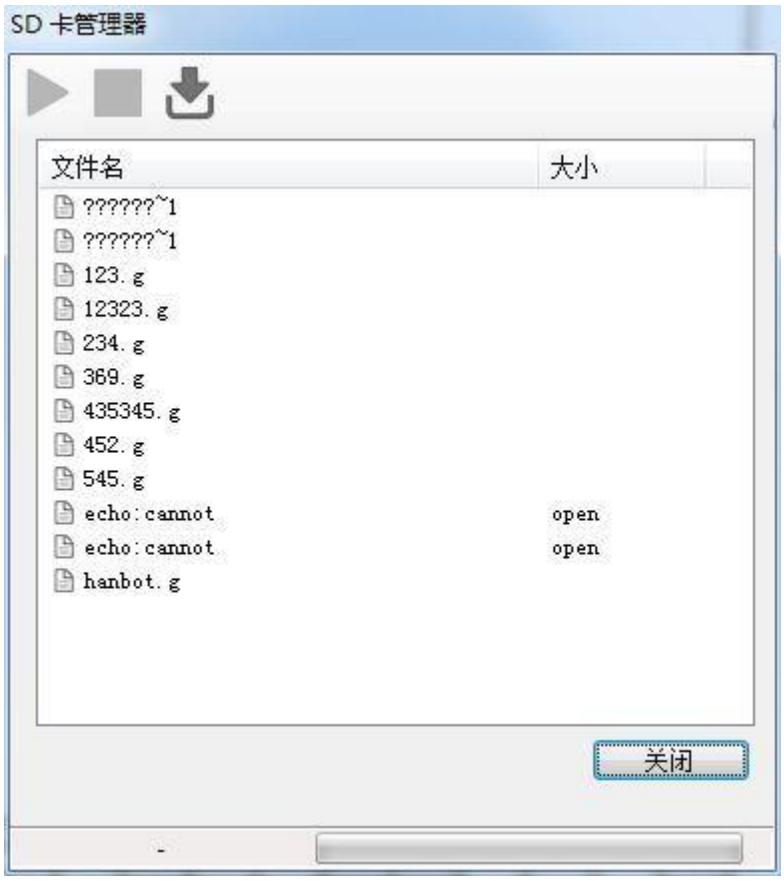
, and it will change to

, that means connect successfully. Click

,you will see:



Click ,browse the files in SD card and choose the one you want to print,



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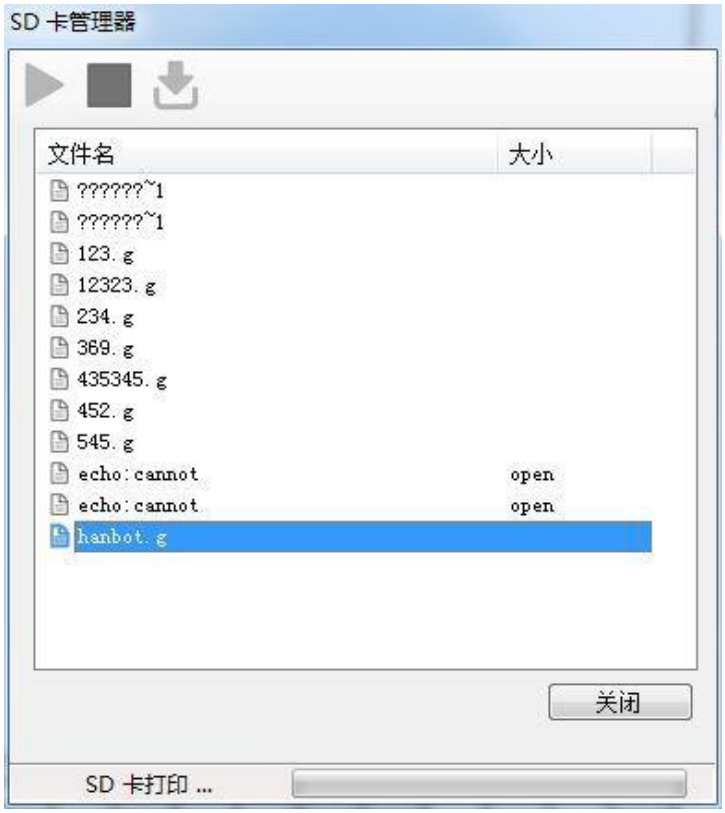
click , start printing:



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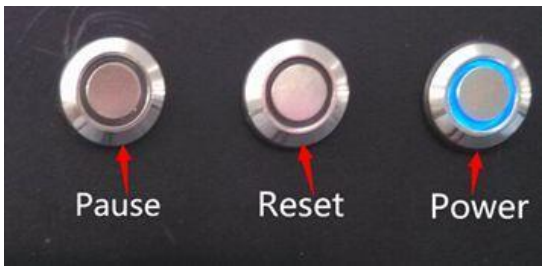
OLED Display Introduction



There are 3 buttons：

Pause：When printing without computer,press "pause",printer stops and press again, the extruder will rise about 10mm. You can change the filament.After that, press "pause",continue printing.

Reset：Restart printer

Power：Power on and power off

OLED display introduction：

END：temperature of nozzle

SD Card：It shows progress rate when printing without computer.If print with computer, no display.

Time：It shows time when printing without computer.If print with computer, no display.

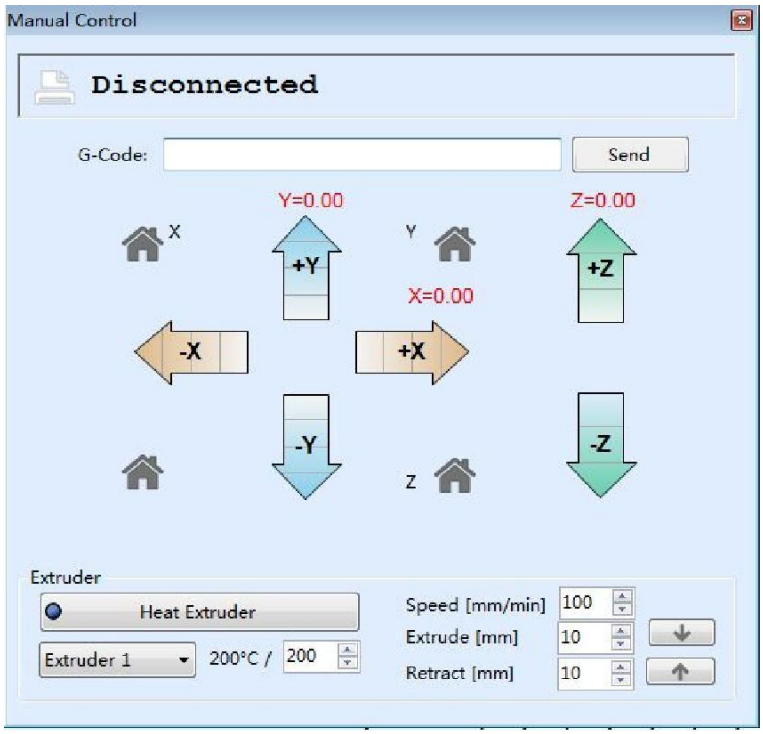
State：printing status

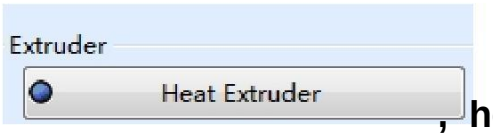
FAQ and Solutions

1) What to do with the nozzle blocked?

Solution:right click mouse, you will see

, click it:



Click 

, heat the temperature to 210 degrees

,then click extruding button

,if the filament comes out fluently, problem solved.

2) What to do with nozzle don't go the home position and can't move?

Solution:Open manual control,click

and

to control

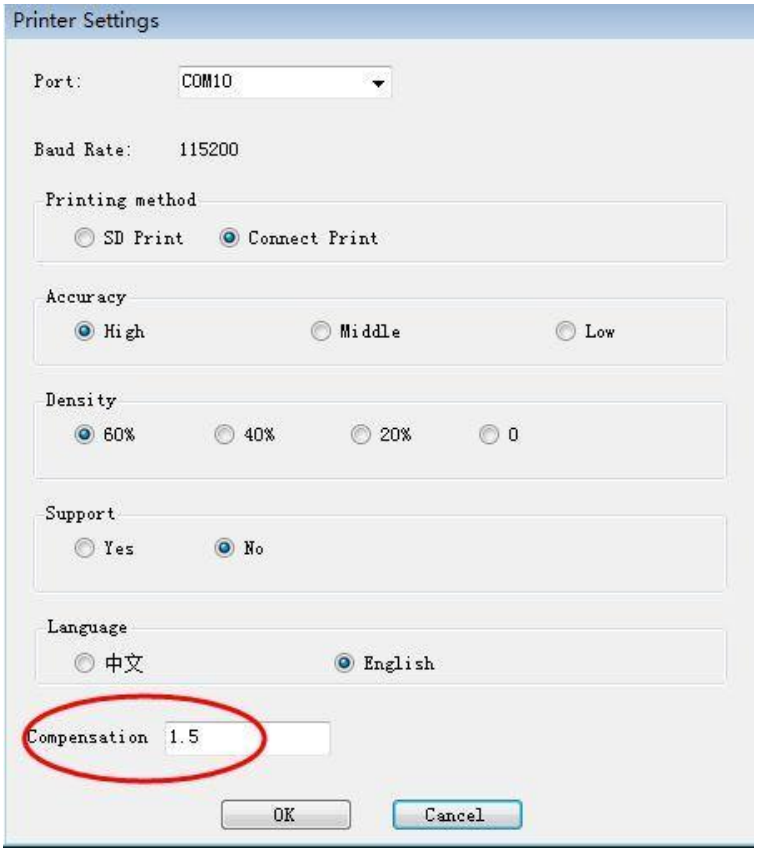
the nozzle to X-Home position and Y-Home position. 3)

Which printing method will be good for large model?

Solution:We advice printing without computer, it will be no signal interference.

4) The distance between nozzle and heat bed is too close or too far

Solution: In printer settings,there is “compensation”,the default value is 1.5. If distance is too close,increase the value(1.6, 1.7.....) till the distance is suitable for printing. Or decrease the value if the distance is too far.



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Welcome to our websites to discuss and communicate if you have other questions.

Official Website：

http://www.han-bot.com/

Forum ：

http://www.han-bot.com/bbs/forum.php?mod=forumdisplay&fid=36

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